

# SEQUENCE LISTING

<110> Binley, Katie M  
Naylor, Stuart

<120> POLYNUCLEOTIDE CONSTRUCTS AND USES THEREOF

<130> 9192.16USWO

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<160> 73

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Mus sp.

<400> 1

cgcgctcggtg caggacgtga caaat

25

<210> 2

<211> 19

<212> DNA

<213> Mus sp.

<400> 2

gtcgggtgcag gacgtgaca

19

<210> 3

<211> 243

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: OBhrel

<400> 3

gctagagtgcg tgcaggacgt gacatctagt gtcgtgcagg acgtgacatc tagtgtcgtg 60  
caggacgtga cagctagccc gggctcgaga tctgcgatct gcattctcaat tagtcagcaa 120  
ccatagtcgc gcccttaact ccgcccattc cgcccctaac tccgcccagt tccgcccatt 180  
ctccgcccga tcgtgacta atttttttta tttatgcaga ggccgaggcc gcctcggcct 240

4036033260

ctg

<210> 4  
 <211> 229  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 construct

<400> 4  
 agctagccta gcgtcgtgca ggacgtgaca tctagtgtcg tgcaggacgt gacatctagt 60  
 gtcgtgcagg acgtgacatc tagagaacca tcagatgttt ccaggggtgcc ccaaggacct 120  
 gaaatgaccc tgtgccttat ttgaactaac caatcagttc gcttctcgct tctgttcgcg 180  
 cgcttctgct ccccgagctc aataaaagag cccacaaccc ctcaactcgg 229

<210> 5  
 <211> 225  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 construct

<400> 5  
 aagctagctg tcacgtcctg cacgacacta gatgtcacgt cctgcacgac actagatgtc 60  
 acgtcctgca cgactctaga gaaccatcag atgtttccag ggtgccccaa ggacctgaaa 120  
 tgaccctgtg ccttatttga actaaccaat cagttcgctt ctcgcttctg ttcgcgcgct 180  
 tctgctcccc gagtcaata aaagagcccc caacccctca ctcgg 225

<210> 6  
 <211> 72  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 6  
 ctagctgtca cgctcctgcac gacactagat gtcacgtcct gcacgacact agatgtcacg 60  
 tcctgcacga ct 72

<210> 7  
 <211> 249  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic

promoter

<400> 7  
gctagagtcg tgcaggacgt gacatctagt gtcgtgcagg acgtgacatc tagtgtcgtg 60  
caggacgtga cagctagcat tccatcacgt ggcccagag aagcatccgg agtactacaa 120  
ggactgctga cagcgagatt tctacaaggg actttccgct ggggactttc cagggaggtg 180  
tggcctgggc gggactgggg agtggcgagc cctcagatgc tgcataaag cagcagctgc 240  
ttttgcccc 249

<210> 8  
<211> 273  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Repressed  
promoter

<400> 8  
gctagagtcg tgcaggacgt gacatctagt gtcgtgcagg acgtgacatc tagtgtcgtg 60  
caggacgtga cagctagcat tccatcacgt ggcccagag aagcatccgg agtactacaa 120  
ggactgctga cagcgagatt tctacaaggg actttccgct ggggactttc cagggaggtg 180  
tggcctgggc gggactgggg agtggcaagt gaaagtgaag gtgaaagtga gagccctcag 240  
atgctgcata taagcagcag ctgcttttgc ccc 273

<210> 9  
<211> 237  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: OBhrell

<400> 9  
gctagagtcg tgcaggacgt gacatctagt gtcgtgcagg catctagtgt cgtgcaggac 60  
gtgacagcta gcccgggctc gagatctgct atctgcatct caattagtca gcaaccatag 120  
tcccgcctct aactccgccc atcccgcccc taactccgcc cagttccgcc cattctccgc 180  
cccacgctg actaattttt ttattttatg cagaggccga ggccgcctcg gcctctg 237

<210> 10  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Spacer

<400> 10  
gtcgtgcagg ca 12

<210> 11  
<211> 24

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Spacer

<400> 11  
tctagtgtcg tgcaggcatc tagt 24

<210> 12  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 12  
gtcgtgcagt acgtgaca 18

<210> 13  
<211> 26  
<212> DNA  
<213> Homo sapiens

<400> 13  
gggccctacg tgctgtctca cacagc 26

<210> 14  
<211> 26  
<212> DNA  
<213> Mus sp.

<400> 14  
gggccctacg tgctgcctcg catggc 26

<210> 15  
<211> 24  
<212> DNA  
<213> Mus sp.

<400> 15  
cgcgctcgtgc aggacgtgac aaat 24

<210> 16  
<211> 30  
<212> DNA  
<213> Mus sp.

<400> 16

ccagcggacg tgcgggaacc cacgtgtagg

30

<210> 17

<211> 26

<212> DNA

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Sequence source  
uncertain

<400> 17

tccacaggcg tgccgtctga cacgca

26

<210> 18

<211> 35

<212> DNA

<213> Homo sapiens

<400> 18

ccacagtgcac tacgtgggct ccaacaggctc ctctt

35

<210> 19

<211> 24

<212> DNA

<213> Rattus sp.

<400> 19

acagtgcata cgtgggcttc caca

24

<210> 20

<211> 17

<212> DNA

<213> Homo sapiens

<400> 20

actacgtgct gcctagg

17

<210> 21

<211> 26

<212> DNA

<213> Homo sapiens

<400> 21

cccctcggac gtgactcgga ccacat

26

<210> 22

<211> 37

<212> DNA

<213> Homo sapiens

<400> 22  
acgctgagtgcggtgcgggac tgcgagtacg tgacgga

37

<210> 23  
<211> 28  
<212> DNA  
<213> Mus sp.

<400> 23  
cggacgtgct ggcgtggcac gtcctctc

28

<210> 24  
<211> 242  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 24  
ctagctgtca cgtcctgcac gacactagat gtcacgtcct gcacgacact agatgtcacg 60  
tcctgcacga ctctagcccg ggctcgagat ctgcgatctg catctcaatt agtcagcaac 120  
catagtcccg cccctaactc cgcccatccc gccctaact ccgcccagtt ccgcccattc 180  
tccgccccat cgctgactaa ttttttttat ttatgcagag gccgaggccg cctcggcctc 240  
tg 242

<210> 25  
<211> 223  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 25  
gatctgaggg ccggacgtgg ggccccagag cgacgtgag tgcgtgcggg actcggagta 60  
cgtgacggag ccccgatct gcatctcaat tagtcagcaa ccatagtccc gccctaact 120  
ccgcccattc cgcccctaac tccgcccagt tccgcccatt ctccgcccc tgcgtgacta 180  
atTTTTTTT tttatgcaga ggccgaggcc gcctcggcct ctg 223

<210> 26  
<211> 155  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 26  
gatctgaggg ccggacgtgg ggccccagag cgacgctgag tgcgtgcggg actcggagta 60  
cgtgacggag ccccggtatct gagggccgga cgtggggccc cagagcgacg ctgagtgcgt 120  
gcgggactcg gagtacgtga cggagccccg gatct 155

<210> 27  
<211> 267  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 27  
gatctgccct acgtgctgtc tcacacagcc tggccctacg tgctgtctca cacagcctgg 60  
atctgcccta cgtgctgtct cacacagcct ggccctacgt gctgtctcac acagcctggg 120  
atctgcatct caattagtc gcaaccatag tcccgccct aactccgcc atcccgcgcc 180  
taactccgcc cagttccgcc cattctccgc cccatcgctg actaattttt tttatttatg 240  
cagaggccga ggccgcctcg gcctctg 267

<210> 28  
<211> 30  
<212> DNA  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Sequence source  
uncertain

<400> 28  
ccagcgacg tgcgggaacc cacgtgtagg 30

<210> 29  
<211> 204  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
construct

<400> 29  
gatctctaca cgtgggttcc cgcacgtccg ctgggctccc actctgacgt cagcgggata 60  
tgcatctcaa ttagtcagca accatagtc cggccctaac tccgcccatc ccgcccctaa 120  
ctccgccag ttccgccat tctccgccc atcgctgact aattttttt atttatgcag 180  
aggccgaggc cgcctcggcc tctg 204

<210> 30  
<211> 115  
<212> DNA  
<213> Artificial Sequence





<400> 34  
ctagagtcgt gcaggaatgg acatctagtg tcgtgcagga atggacatct agtgtcgtgc 60  
aggaatggac ag 72

<210> 35  
<211> 136  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 35  
agcttctctgc cccagactgc gacccctccc tcttgggttc aaggctttgt tttcttctta 60  
aagacccaag atttccaaac tctgtggttg ccttgcctag ctaaaagggg aagaagagga 120  
tcagcccaag gaggac 136

<210> 36  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 36  
caagtgaag tgaaagtga agtgagagcc 30

<210> 37  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 37  
gcatggacct gtggggtttt tatgagg 27

<210> 38  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 38  
gcatgagctc tgtaggatct cgaacagac 29

<210> 39  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 39  
gactacgact agtgtatgtt tagaaaaaca agg 33

<210> 40  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 40  
ctaggctact agtactgtag gatctcgaac ag 32

<210> 41  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 41  
gggctatatg agatcttgaa taataaaatg tgt 33

<210> 42  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 42  
tattaataac tagt 14

<210> 43  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 43  
gctacgcaga gctcgttttag tgaaccgggc actcagattc tg

42

<210> 44  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 44  
gctgagctct agagtccttt tcttttataa agttgg

36

<210> 45  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 45  
ttctgtcgac gaatcccagg gggaatctca ac

32

<210> 46  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 46  
gtcaccttcc agagggccct ggctaagcat aacag

35

<210> 47  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 47  
ctgttatgct tagccagggc cctctggaag gtgac

35

<210> 48  
<211> 28

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 48  
aattgctgac ccccaaaata gccataag

28

<210> 49  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
sequence

<400> 49  
atcgctcgag ctgcagggcc gcactagagg aattcgc

37

<210> 50  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
sequence

<400> 50  
ggttggtggcc catggtatca tcgtgttttt caaagg

36

<210> 51  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 51  
ccatgcacgt ctgcagccag catggcagaa tcgaag

36

<210> 52  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 52  
cctgaggatc tattttccac cagtcatttc

30

<210> 53  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 53  
gtggaaaata gatcctcagg gccctctgg

29

<210> 54  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 54  
gcagtgccgg atcctcataa atgtttcctc cttcg

35

<210> 55  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 55  
ccatgcacgt ctcgagccag catgggagac cctttgac

38

<210> 56  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 56  
gcaatggaat gacatccctc agctgccagt cc

32

<210> 57  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 57  
cgagctagag gtcgactcaa tttggtttat tagtaac

37

<210> 58  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 58  
gggatgtcat tccattgccca ccatgggaag tatttatcac ta

42

<210> 59  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 59  
gtcgtgcagg acgtgaca

18

<210> 60  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 60  
tgtcacgtcc tgcacgac

18

<210> 61  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 61

14

18

tacgtgcagg acgtgaca

<210> 62  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 62  
tgtcacgtcc tgcacgta

18

<210> 63  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 63  
tgtcacgtac tgcacgac

18

<210> 64  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 64  
gtcgtgcagg acgtgaca

18

<210> 65  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 65  
tgtcacgtgc tgcacgac

18

<210> 66

15

<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 66  
gtcgtgcagg acgtggca

18

<210> 67  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 67  
tgccacgtcc tgcacgac

18

<210> 68  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 68  
gtcgtgcagt acgtggca

18

<210> 69  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide

<400> 69  
tgccacgtac tgcacgac

18

<210> 70  
<211> 20  
<212> DNA  
<213> Artificial Sequence



<220>  
<223> Description of Artificial Sequence: Primer

<400> 70  
cagaccatgg aactcagcgt 20

<210> 71  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 71  
ggacactgaa tgaccctgga 20

<210> 72  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 72  
tcattgctagc ggatccacca tggaactcag cgtc 34

<210> 73  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 73  
aaaatcacac tctagattcc ctcagcccoct tcagc 35